



PATENT APPLICATION
CS-7853
LeA 35,958

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF)	
CHRISTIAN AICHINGER ET AL)	GROUP NO.: 1645
SERIAL NUMBER: 10/621,866)	
FILED: JULY 17, 2003)	
TITLE: METHODS FOR IDENTIFYING)	
INHIBITORS OF THE 20S AND)	
26S PROTEASOME)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements. Enclosed are copies of the following:

- a) the documents and any corresponding English language equivalents listed on the attached Form PTO 1449, and
- b) the Search Report received in the corresponding application pending in the European Patent Office.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Commissioner for Patents, Alexandria, VA 22313-1450, on 1/07/04
Date

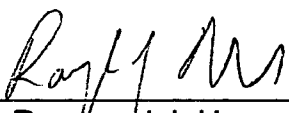
Raymond J. Harmuth, Reg. No. 33,896
Name of applicant, assignee or Registered Representative

Ray J. Harmuth
Signature

January 7, 2004
Date

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any reference mentioned herein constitutes prior art, or that the references listed, severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

By 
Raymond J. Harmuth
Attorney for Applicants
Reg. No. 33,896

Bayer CropScience LP
100 Bayer Road
Pittsburgh, Pennsylvania 15205-9741
(412) 777-3916
FACSIMILE PHONE NUMBER:
(412) 777-3902
lo/HARMUTH/rjh085

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. CS-7853 / LeA 35,958	Serial No. 10.621,866
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RAZ/	AA	5,425,942	06/20/95	(Bel. to corresp. to EP Tanaka	345,750) 424	94.1	
/RAZ/	AB	5,693,617	12/02/97	(Bel. to corresp. to WO Stein et al	95/24914) 514	18	
/RAZ/	AC	6,613,541 B1	09/02/03	(Bel. to corresp. to WO Vaddi et al	00/23614) 435	23	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
/RAZ/	AL	2,077,665	09/06/91	(Bel. to corresp. to WO 91/13904) Canada				
/RAZ/	AM	2 359 561	07/18/01	(Bel. to corresp. to WO 00/43000) Canada				
/RAZ/	AN	5-292964	11/09/93	Japan (Abstract Attached)				X
/RAZ/	AO	6-22759	02/01/94	Japan (Abstract Attached)				X
/RAZ/	AP	98/42829	10/01/98	World				X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/RAZ/	AR	Science, Vol. 268, 5 May 1995, pgs. 726-731, "Inhibition of Proteasome Activities and Subunit-Specific Amino-Terminal Threonine Modification by Lactacystin" by G. Fenteany et al.
/RAZ/	AS	Nature, 386, April 3, 1997, pgs. 463-471, "Structure of 20S proteasome from yeast at 2.4 Å resolution" by M. Groll et al.
/RAZ/	AT	Journal of Biomolecular Screening, Volume 4, Number 2, (month unavailable) 1999, pgs. 67-73, "A Simple Statistical Parameter for Use in Evaluation and Validation of High Throughput Screening Assays" by Ji-Hu Zhang et al.

EXAMINER	DATE CONSIDERED
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.	

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. CS-7853 / LeA 35,958	Serial No. 10.621,866
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	00/33654	06/15/00	World				
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/RAZ/	AR	Chem. Biol. 5, (month unavailable) 1998, pgs. 307-320, "Substrate binding and sequence preference of the proteasome revealed by active-site-directed affinity probes" by M. Bogyo et al.
/RAZ/	AS	Annu. Rev. Biochem., 65, (month unavailable) 1996, pgs. 801-847, "Structure And Functions Of The 20S and 26S Proteasomes" by O. Coux et al.
/RAZ/	AT	J. Biol. Chem., 273 (15), April 10, 1998, pgs. 8820-8828, "Enzymes Catalyzing Ubiquitination and Proteolytic Processing of the p105 Precursor of Nuclear Factor κB1" by O. Coux et al.
EXAMINER		DATE CONSIDERED
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. CS-7853 / LeA 35,958	Serial No. 10.621,866
		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/RAZ/	AR	J. Biol. Chem., 265, March 25, 1990, pgs. 4789-4792, "The Proteasome (Multicatalytic Protease) Is a Component of the 1500-kDa Proteolytic Complex Which Degrades Ubiquitin-conjugated Proteins" by J. Driscoll et al.
/RAZ/	AS	Proc. Natl. Acad. Sci. USA, Vol. 96, pgs. 10403-10408, August 1999, "Epoxomicin, a potent and selective proteasome inhibitor, exhibits <i>in vivo</i> antiinflammatory activity" by L. Meng et al.
/RAZ/	AT	Bioscene, 26 (3), (month unavailable) 2000, pgs. 9-13, "Modeling Antimicrobial Activity of Clorox™ Using an Agar-Diffusion Test: A New Twist on an Old Experiment" by J. K. Mitchell et al.
EXAMINER		DATE CONSIDERED
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Neither English Language Equivalent nor an English Language Translation is available.

Form 1-10 1449 Rev. 17-86	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. CS-7853 / LeA 35,958	Serial No. 10.621,866
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Christian Aichinger et al.	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RAZ	AR	Biochemistry, (month unavailable) 1993, 32, pgs. 1563-1572, "Evidence for the Presence of Five Distinct Proteolytic Components in the Pituitary Multicatalytic Proteinase Complex. Properties of Two Components Cleaving Bonds on the Carboxyl Side of Branched Chain and Small Neutral Amino Acids" by M. Orłowski et al.
RAZ	AS	Cell, Vol. 60, pgs. 295-306, January 26, 1990, "The <i>b</i> Alleles of <i>U. maydis</i> , Whose Combinations Program Pathogenic Development, Code for Polypeptides Containing a Homeodomain-Related Motif" by B. Schulz et al.
RAZ	AT	Nature Biotechnology, 18 Dec. 2000, pgs. 1298-1302, "A ubiquitin-based tagging system for Controlled modulation of protein stability" by J. H. Stack et al.

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-98	U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. CS-7853 / LeA 35,958	Serial No. 10.621,866
		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RAZ	AR	Biochemistry, (month unavailable) 1996, 35, pgs. 3899-3908, "Kinetic Characterization of the Chymotryptic Activity of the 20S Proteasome" by R. L. Stein et al.
RAZ	AS	Neuroscience Letters, 201, (month unavailable) 1995, pgs. 29-32, "Calpain inhibitor I decreases β A4 secretion from human embryonal kidney cells expressing β -amyloid precursor protein carrying the APP670/671 double mutation" by Hans-W. Klafki et al.
RAZ	AT	Nature, 390, December 1997, pgs. 639-643, "Structure of the proteasome activator REG α (PA28 α)" by J. Randolph Knowlton et al.

EXAMINER	DATE CONSIDERED
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.	

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-89	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. CS-7853 / L A 35,958	Serial No. 10.621,866
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets if Necessary)		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						Yes	No*
AL							
AM							
AN							
AO							
AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RAZ	AR	Chem Biol., 6, (month unavailable) 1999, pgs. 689-698, "The secondary fungal metabolite Gliotoxin targets proteolytic activities of the proteasome" by M. Kroll et al.
RAZ	AS	Molecular And Cellular Biology, Vol. 18, January 1998, pgs. 30-38, "Proteasome Inhibitors Cause Induction of Heat Shock Proteins and Trehalose, Which Together Confer Thermotolerance in <i>Saccharomyces cerevisiae</i> " by Do Hee Lee et al.
RAZ	AT	The Journal Of Biological Chemistry, Vol. 271, No. 44, Issue of November 1, 1996, pgs. 27280-27284, "Selective Inhibitors of the Proteasome-dependent and Vacuolar Pathways of Protein Degradation in <i>Saccharomyces cerevisiae</i> " by Do Hee Lee et al.

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. CS-7853 / LcA 35,958	Serial No. 10.621,866
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Christian Aichinger et al	
		Filing Date July 17, 2003	Group 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RAZ	AR	The Journal Of Biological Chemistry, Vol. 272, No. 47, Issue of November 21, 1997, pgs. 29899-29903, "Specificities of Cell Permeant Peptidyl Inhibitors for the Proteinase Activities of μ -Calpain and the 20 S Proteasome" by R. L. Mellgren.
RAZ	AS	Biochemistry, (month unavailable) 1998, pgs. 7792-7800, "Kinetic Studies of the Branched Chain Amino Acid Preferring Peptidase Activity of the 20S Proteasome: Development of a Continuous Assay and Inhibition by Tripeptide Aldehydes and <i>clasto</i> -Lactacystin β -Lactone" by T. A. McCormack et al
RAZ	AT	Jones R. W. et al: "Variation in Sensitivity Among Anastomosis Groups of Rhizoctonia-Solani To The Antibiotic Gliotoxin" Plant Disease, Bd. 71, Nr. 1, 1987, Seiten 34-36, XP009019179 ISSN: 0191-2917 das ganze Dokument.

EXAMINER	/Robert Zeman/	DATE CONSIDERED	03/04/2008
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Neither English Language Equivalent nor an English Language Translation is available.